

Rational Pharmaceutical Management Plus Trip Report of Comprehensive ART Commodity Management Training Course, Nairobi, Kenya: July 25 to August 13, 2005

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About RPM Plus

The Rational Pharmaceutical Management Plus (RPM Plus) Program, funded by the U.S. Agency for International Development (cooperative agreement HRN-A-00-00-00016-00), works in more than 20 developing countries to provide technical assistance to strengthen drug and health commodity management systems. The program offers technical guidance and assists in strategy development and program implementation both in improving the availability of health commodities—pharmaceuticals, vaccines, supplies, and basic medical equipment—of assured quality for maternal and child health, HIV/AIDS, infectious diseases, and family planning and in promoting the appropriate use of health commodities in the public and private sectors.

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Contents

Acronyms	v
Background	1
Purpose of Trip	1
Scope of Work	2
Activities	3
1. Brief and/or debrief USAID officials, as requested.....	3
2. Work with local staff and trainers to adapt the materials to the Kenyan context and prepare for the Adaptation Workshop and the training course.	3
3. Participate in and facilitate at the Adaptation Workshop. Work with local staff and trainers to adapt the materials to the Kenyan context.	4
4. Participate in and facilitate at the <i>Comprehensive ART Commodity Management Training Course, Kenya</i>	5
5. Observe the <i>Comprehensive ART Commodity Management Training Course, Kenya</i> and assess the suitability and clarity of the training materials for the target audiences. Solicit feedback from participants, trainers and the RPM Plus Nairobi team on recommendations to improve the generic training materials and adaptation process.....	6
6. Plan for a materials review workshop by East Africa academic institutions. Discuss scaling up of the training materials in East Africa.....	6
Collaborators and Partners.....	7
Adjustments to Planned Activities and/or Additional Activities.....	7
Next Steps	9
Annex 1. Facilitators	11
Annex 2. Timetable for Adaptation Workshop.....	13
Annex 3: Participants.....	15
Annex 4. Time Table for <i>Comprehensive ART Commodity Management Training Course, Kenya</i>	17

Acronyms

AIDS	acquired immunodeficiency syndrome
ART	antiretroviral therapy
ARV	antiretroviral [drugs]
CPGH	Coast Provincial General Hospital
HIV	human immunodeficiency virus
INRUD	International Network for Rational Use of Drugs
MOH	Ministry of Health
MSH	Management Sciences for Health
MTP	Monitoring, Training and Planning
NASCOP	National AIDS and Sexually Transmitted Diseases Control Programme [Kenya]
RPM Plus	Rational Pharmaceutical Management Plus [Program]
RTRC	Regional Technical Resource Collaboration for Pharmaceutical Management
USAID	United States Agency for International Development
VCT	voluntary counseling and testing [for HIV]

Background

Management Sciences for Health (MSH) Rational Pharmaceutical Management Plus (RPM Plus) Program has received funding from the United States Agency for International Development (USAID) under the United States President's Emergency Plan for AIDS Relief to provide technical assistance to strengthen the pharmaceutical management and laboratory services to support the expansion of access to antiretroviral drug therapy (ART). Training of healthcare workers in the skills, knowledge, and attitudes necessary for effective management of ART-related medicines and supplies is essential for the realization of national targets for ART scale up. Good quality training materials and well prepared and empowered facilitators are among the key resources for an effective and efficient ART commodity management training program.

MSH / RPM Plus has developed generic ART commodity management training materials that government agencies, local universities, or program managers who are in charge of organizing training activities for health workers can adapt and use to support local ART programs. The materials contain no country-specific references and, in fact, rely on the user to supply local, relevant ("in-country" is the term used throughout) information. The process of adapting the materials calls for the full involvement of the facilitators who will present the materials in the actual training. It gives the facilitators an opportunity to become familiar with the materials, generate relevant examples, and adjust the sequencing to fit the local situation.

The MSH / RPM Plus Nairobi office graciously accepted to be the first field office to support the testing of the materials and adaptation process and agreed to provide comprehensive feedback. In collaboration with the National AIDS and Sexually Transmitted Diseases Control Program (NASCOP), the RPM Plus Nairobi office organized a training workshop – *Comprehensive ART Commodity Management Training Course, Kenya* – for five days from August 8 to 12, 2005 for 33 pharmaceutical staff from 33 ART sites in Kenya.

Purpose of Trip

Ms Noura Maalaoui, Program Associate, RPM Plus traveled to Nairobi, Kenya from July 25 to August 12, 2005 and Ms Helena Walkowiak, Senior Program Associate RPM Plus from August 2 to August 12, 2005 to work with RPM Plus Nairobi office staff to field test the ART commodity management training materials. Dr. Lloyd Matowe, RPM Plus Operations Research Coordinator, joined Ms Maalaoui and Ms Walkowiak from August 7 to August 12 to help evaluate the application of the training materials and plan for a review of the materials by a group of academic members of staff from Uganda, Kenya, Tanzania, and Rwanda. Ms Maalaoui returned to Nairobi on August 18, 2005 to work with RPM Plus Nairobi staff to develop recommendations for finalizing the materials based on the field test.

Scope of Work

Scope of Work for Noura Maalaoui

1. Brief and/or debrief USAID officials, as requested.
2. Work with local staff and trainers to adapt the materials to the Kenyan context and prepare for the Adaptation Workshop and the training course.
3. Participate in and facilitate the Adaptation Workshop. Work with local staff and trainers to adapt the materials to the Kenyan context.
4. Observe the *Comprehensive ART Commodity Management Training Course, Kenya* and assess the suitability and clarity of the training materials for the target audiences. Solicit feedback from participants, trainers and the RPM Plus Nairobi team on recommendations to improve the generic training materials and adaptation process.

Scope of Work for Lloyd Matowe

1. Brief and/or debrief USAID officials, as requested.
2. Observe the *Comprehensive ART Commodity Management Training Course, Kenya* and assess the suitability and clarity of the training materials for the target audiences.
3. Plan for a materials review workshop by East Africa academic institutions. Discuss scaling up of the training materials in East Africa.

Scope of Work for Helena Walkowiak

1. Brief and/or debrief USAID officials, as requested.
2. Participate in and facilitate at the Adaptation Workshop. Work with local staff and trainers to adapt the materials to the Kenyan context.
3. Participate in and facilitate at the *Comprehensive ART Commodity Management Training Course, Kenya*.

Activities

1. Brief and/or debrief USAID officials, as requested.

The USAID Mission/Zambia officials were debriefed by the RPM Plus Nairobi team.

2. Work with local staff and trainers to adapt the materials to the Kenyan context and prepare for the Adaptation Workshop and the training course.

From July 11-22, 2005 the RPM Plus Nairobi training coordination team represented by Dr Michael Thuo, Regional Technical Advisor, Dr Mary Wangai, Deputy Regional Technical Advisor, Dr Josephine Maundu, Senior Program Associate, Mrs Jedida Wachira, Senior Program Associate, Mr Joseph Mukoko, Senior Program Associate, Dr Ndinda Kusu, Senior Program Associate, Dr. Charles Njuguna, Program Associate, and Mr Anthony Njoroge, Program Associate, worked with NASCOP to select:

- The sessions and activities to be included in the Kenya training (from the generic materials provided).
- A trainer or team of trainers to facilitate each session or group of sessions.
- A coordinating team member (focal point person) for each set of sessions to organize and follow-up the initial review process (from July 11-22), complete / adapt slides as necessary and assist in obtaining local data / information as needed.

Trainers were selected based on the following criteria:

- Experienced facilitators with practical knowledge of delivery of ART including dispensing, medication counseling and stock management.
- Facilitators that are experts in their respective fields e.g. clinician is an expert at managing HIV patients.
- Facilitators with knowledge of the local national ART program.
- Regional pharmacists who may continue to lend support to the sites being trained and program decentralization initiatives.
- National ART program staff that have the recent statistics and knowledge on ART program development and scale up and who would support the national program and the country's ART strategy.
- Facilitators who have previously received training and technical support from MSH / RPM Plus.

The list of facilitators is attached as Annex 1.

The trainers (working with the focal point person) were asked to read their respective sessions and look for the information needed to adapt the session to the local context. In addition, they were encouraged to read the background literature provided on topics in their sessions.

Upon her arrival on the July 25 and until the start of the Adaptation Workshop on August 3, 2005, Ms Maalaoui met regularly with different members of the training coordination team to:

- Follow-up on the adaptation process, review and verify the modifications made by designated trainers to the content of each session.
- Develop the training needs assessment questionnaire.
- Organize and develop the time table for the Adaptation Workshop.
- Review and adjust the training schedule.
- Adapt each session evaluation and overall course evaluation forms.
- Guide the printing out of the handouts and binder preparation.
- Develop the training on standard operating procedures.
- Brainstorm on the *Monitoring Training Planning (MTP)* session and application of the methodology in Kenya.
- Visit and select the ART site for practicum session.

3. Participate in and facilitate at the Adaptation Workshop. Work with local staff and trainers to adapt the materials to the Kenyan context.

From August 3 to 5, 2005 Ms Maalaoui and Ms Walkowiak worked with the training coordination team to organize and facilitate the Adaptation Workshop. The timetable for the Adaptation Workshop is attached as Annex 2.

Ms. Maalaoui contribution to the workshop included:

- Presenting the sessions on *Training Material Development and Adaptation* and *Oral Presentation Techniques*.
- Observing the adaptation sessions and providing help to each team as needed.
- Participating in the brainstorming session on the MTP approach and its application in Kenya.
- Finalizing the development of the pre- and post tests and the practicum checklist.

Ms Walkowiak worked with Dr Thuo to facilitate a session entitled *Monitoring, Training and Planning* and to moderate a discussion on the appropriateness and adaptation of this ongoing training and problem solving technique to the Kenyan context.

The RPM Plus HIV pharmaceutical management training materials are designed as generic materials which need to be adapted to the in-country context. One of the objectives of the field test was to observe the adaptation process to assess how well the process worked and to identify strategies to simplify the process. Although trainers had been given two weeks to adapt and prepare their respective sessions, the three-day Adaptation Workshop was the most important part of the adaptation process. During the pre-workshop period some of the trainers had been able to work in depth on their respective sessions and provide prompt feedback; however, others, because of high workload, did not have the chance to thoroughly examine their sessions and provide the necessary information. In addition, it was difficult to get in touch with all trainers and discuss the changes they made to different sessions prior to the

workshop. Prior and during the workshop, Ms. Maalaoui worked with the training coordination team to:

- Ensure that the selection of the individual training sessions and overall agenda meets the trainees' needs.
- Estimate the magnitude of the effort needed to adapt the training material to the Kenyan context and to ensure that the adaptation of each session was adequate and complete.
- Avoid the overlapping and repetition of topics through good coordination among the trainers
- Ensure that changes made to each session are limited to what is requested in the instructions for trainers concerning the adaptation to in-country context.

An evaluation form was distributed to the trainers at the end of the workshop to solicit their comments and feedback on the adaptation process.

Ms Walkowiak worked in collaboration with a local counterpart trainer to adapt the session entitled *Commodity Management Cycle in the Context of the ART Program in Kenya*. In addition Ms Walkowiak worked with Dr Thuo, Ms Maalaoui, and Mrs Jedida Wachira to adapt the final session on *Monitoring, Training and Planning* to the Kenyan context.

4. Participate in and facilitate at the *Comprehensive ART Commodity Management Training Course, Kenya*.

In collaboration with the NASCOP, the RPM Plus Nairobi office conducted a training workshop – *Comprehensive ART Commodity Management Training Course, Kenya* – from August 8 to August 12, 2005 for 33 pharmaceutical staff from 33 ART sites in Kenya. The participants were drawn from high volume Ministry of Health (MOH) and non-MOH sites nationally. Participants selected were those who were directly involved in antiretroviral drug (ARV) quantification, inventory management, dispensing and medication use counseling. Participants who attended the training included 27 pharmacists and 6 pharmaceutical technologists from all the provincial general hospitals, 18 nurses, 2 clinical officers, 1 pharmacy assistant, 1 social worker and 2 voluntary counseling and testing (VCT) counselors. The list of participants is attached as Annex 3.

Ms Walkowiak joined the highly experienced group of facilitators from the NASCOP / RPM Plus team – the timetable for the workshop is attached as Annex 4.

Ms Walkowiak co-facilitated sessions on *Commodity Management Cycle in the Context of the ART Program in Kenya* and *Monitoring, Training and Planning*. Ms Walkowiak also acted as rapporteur for the training workshop. The workshop was well received and the participants reported that they had especially enjoyed the participatory approach. A report of the workshop will be submitted separately.

5. Observe the *Comprehensive ART Commodity Management Training Course, Kenya* and assess the suitability and clarity of the training materials for the target audiences. Solicit feedback from participants, trainers and the RPM Plus Nairobi team on recommendations to improve the generic training materials and adaptation process.

During the training Ms Maalaoui and Dr Matowe observed the session's delivery by trainers and the trainee's interaction with the presentation techniques. Special attention was given to:

- The flow of the sessions in the course.
- The flow of each session's content.
- The overlapping and repetitions of taught topics between sessions.
- The suitability and clarity of the training materials for the target audiences.
- The life examples and experiences provided by trainers and trainees.

At the end of each session and at the end of the course different evaluation forms were distributed to the trainees, and their comments and feedback solicited on the relevance of the session and the training material, the performance of the trainers and the appreciation of the training course organization.

At the end of each training day, a recap session was organized to discuss with the trainers the work of the day and the adjustments to be made to the agenda or training sessions to improve the delivery of the training course. Similarly, a recap session at the end of the course was held to discuss the trainees' feedback, pre-post test results and the lessons learned during the training.

On August 18, 2005, upon her return from the Makerere Workshop in Uganda to Nairobi, Ms Maalaoui worked with Dr Maundu and Dr Kusu from the RPM Plus Nairobi office to discuss the changes to be made to the training sessions and material in order to:

- Improve the organization of subsequent courses.
- Minimize repetition between sessions.
- Make the best use of the time available for each session and the total course.
- Step-down the training material to the primary health care level.

Ms Maalaoui was asked to incorporate the changes identified and to send them to the RPM Plus training coordination team in Nairobi.

6. Plan for a materials review workshop by East Africa academic institutions. Discuss scaling up of the training materials in East Africa.

RPM Plus is providing technical assistance to Makerere University in Uganda to develop and coordinate a regional network of institutions to build capacity in supply management for HIV/AIDS, Tuberculosis, and Malaria treatment programs. The initiative, the Regional Technical Resource Collaboration for Pharmaceutical Management (RTRC), includes institutions from Uganda, Kenya, Rwanda, Tanzania and Ethiopia. The RTRC intends to use the RPM Plus HIV/AIDS pharmaceutical management training materials for country training programs. To enhance the process the group met in Kampala from August 15-17, 2005, to

review the materials and assess their suitability and appropriateness for use in their respective countries. The Kenya field testing helped identify practical problems, such as time allocated for each session, or method of delivery to assist the reviewing process in Kampala.

Collaborators and Partners

Dr. Ibrahim Mohammed, Director of NASCOP

Dr. Tanui, Program Manager, Treatment Services, NASCOP

Professor Isaac Kibwage, Dean, School of Pharmacy, University of Nairobi

Dr. Jennifer Orwa, INRUD Kenya, Kenya Medical Research Institute

Dr. Josphat Mbuva, Deputy Chief Pharmacist, Kenya Ministry of Health

Adjustments to Planned Activities and/or Additional Activities

None

Next Steps

- Immediately following the workshop in Nairobi the HIV/AIDS pharmaceutical management materials were reviewed by academic members of staff from Makerere University, Uganda; Muhimbili College of Health Sciences, Tanzania; University of Nairobi, Kenya; and the National University of Rwanda. These institutions are part of RPM Plus' capacity building initiative for supply management of pharmaceuticals in the region. Comments from the review workshop were reviewed by RPM Plus and incorporated into the final version of the training materials.
- The RPM Plus Nairobi office will develop a detailed proposal on the feasibility and the application of the MTP approach to improve the pharmaceutical management in some pilot ART sites in Kenya and to follow up on the skills learned during the training course. The strategy will include supporting joint NASCOP and RPM Plus supervisory visits to the sites that have been trained on ART commodity management and incorporating the MTP approach into all ART management trainings. In addition a few pilot sites will be identified for a series of three 1 day workshops 6 weeks apart where the RPM Plus Nairobi office staff will use the MTP approach to assist sites to address identified weakness in commodity management practices.

Annex 1. Facilitators

	FACILITATORS: COMPREHENSIVE ART COMMODITY MANAGEMENT TRAINING COURSE, KENYA	
	NAME	Organization
1	Dr. Caroline Olwande	CPGH
2	Dr. Lawrence Nzumbu	CPGH
3	Dr. Janet Kimeu	PORT REITZ DISTRICT HOSPITAL
4	Dr. John Jao Majimbo	KPA
5	Dr. James Ogolla	Nyanza PGH
6	Dr. Victor Sumbi	Central PGH
7	Dr. Brian Maiyo	RV PGH
8	Dr. Beatrice Jakait	MTRH
9	Dr. Cecelia Muiva	NASCOP/KEMSA
10	Dr. Dorine Kagai	NASCOP
11	Rose Alinda	NASCOP
12	Dr. Liza Ombimbo	UoN
13	Rachel Kahindi	PORT REITZ DISTRICT HOSPITAL
14	Dr. Michael Thuo	MSH / RPM Plus
15	Dr. Mary Wangai	MSH / RPM Plus
16	Ms. Helena Walkowiak	MSH / RPM Plus
17	Dr. Noura Maalaoui	MSH / RPM Plus
18	Dr. Ndinda Kusu	MSH / RPM Plus
19	Dr. Charles Njuguna	MSH / RPM Plus
20	Dr. Jedida Wachira	MSH / RPM Plus
21	Dr. Joseph Mukoko	MSH / RPM Plus
22	Anthony Njoroge	MSH / RPM Plus
23	Dr. Josephine Maundu	MSH / RPM Plus

Annex 2. Timetable for Adaptation Workshop

TIMETABLE FOR TRAINERS MEETING ON COMPREHENSIVE ART COMMODITY MANAGEMENT, KENYA Training Material Adaptation: August 3 to August 5, 2005

Time	Topic	Facilitator
Day 1: WEDNESDAY AUGUST 3RD 2005		
8:30 – 9.00 am	Objectives of Facilitators Meeting & Overview of Activities	Jedida Wachira
9:00-9:45 am	Overview of ART Commodity Management Training Curriculum (Course Development, Course Material, Training Process, Target Audience, etc)	Noura
9:45-10:30am	Effective Verbal and Visual Communication Techniques	Noura Josephine Maundu Joseph Mukoko
10:30-10:45 am	Tea	
10:45-1:00pm	Facilitator Working Session I: Training Material Adaptation	MSH TEAM
1:00-2:00pm	Lunch	
2:00-4:00pm	Facilitator Working Session II : Training Material Adaptation	MSH TEAM
4.00-4.15 pm	Tea	
4.15-5.00	Recap Facilitator Working Session: Where are we at?	Jedida Wachira

Time	Topic	Facilitator
DAY 2: THURSDAY AUGUST 4TH 2005		
8:30 -10:30	Facilitator Working Session III: Training Material Adaptation	MSH TEAM
10:30 - 10:45am	Tea	
10:45 – 11.15am	Facilitator Working Session IV: Training Material Adaptation Selection of Pre/Post Test Questions	Charles Njuguna
11.15 am - 1:00pm	Dry Runs & Video Tape	Dr. Mary Wangai
1:00-2:00 pm	Lunch	
2.00 - 4.00 pm	Training Course Timetable Review	Josephine Maundu
4.00 -4.15 pm	Tea	
4.15-5.00 pm	Facilitator Working Session V: Finalization of Participant Handouts	MSH TEAM
Day 3: FRIDAY AUGUST 5TH 2005		
8:30-8:45 am	Overview of Practicum Visit (Site characteristics, Logistics)	Joseph Mukoko
8:45am - 10.30am	Review of Practicum Objectives & Practicum Checklist	Joseph Mukoko/ Charles Njuguna
10.30-10.45 am	Tea	
10:45-11.30am	Review of Practicum Objectives & Practicum Checklist	Joseph Mukoko/Charles Njuguna
11:30am- 1:00 pm	Video Tape Reviews	Dr. Mary Wangai
1:00-2:00pm	Lunch	
2:00-4:00 pm	ART CM MTP Session	Dr. Michael Thuo /Helena Walkowiak
4:00- 4:15 pm	Tea	
4:15-5:00 pm	ART CM MTP Session	Dr. Michael Thuo /Helena Walkowiak

Annex 3: Participants

	Name of Facility	Name of Participant	Cadre
1	BOMU MEDICAL CENTER	Dr. Almasi Lodhi	Pharmacist
2	BUNGOMA DH	Dr. George Walukana	Pharmacist
3	BUSIA DH	Dr. Emmanuel Simiyu	Pharmacist
4	BUTERE MUMIAS DH	Patrick Z Indikha	Pharmaceutical Technologist
5	CMMB	Dr. Grace Waiharo	Pharmacist
6	FORCES MEMORIAL HOSPITAL	Major B. O. Chessa	Pharmaceutical Technologist
7	GATUNDU SDH	Dr. Dominic Kariuki	Pharmacist
8	KERICHO DH	Dr. Evans Mwangangi	Pharmacist
9	KISII DH	Pauline Moraa	Pharmaceutical Technologist
10	KISUMU KDH	Dr. Mary Atieno	Pharmacist
11	KITALE DH	Dr. Dorothy Amony	Pharmacist
12	MACHAKOS DH	Dr. Sarah Mwangi	Pharmacist
13	MALINDI DH	Dr. Evelyne Wetangula	Pharmacist
14	MARAGWA DH	Dr. G. M. Nzioka	Pharmacist
15	MARIAKANI SDH	Dr. Victor Mudhune	Pharmacist
16	MBAGATHI DH	Dr. Lydia Gaturwa	Pharmacist
17	MTRH	Edward Lokorith	Pharmaceutical Technologist
18	MURANGA DH	Dr. Dennis Kirubi	Pharmacist
19	NAIVASHA DH	Dr. Joseph Mwangi	Pharmacist
20	NAIROBI WOMEN'S HOSPITAL	Robert Kigadi	Pharmaceutical Technologist
21	NANYUKI DH	Dr. Damaris Kihianyu	Pharmacist
22	EMBU PGH	Dr. Albert Ndwiga	Pharmacist
23	GARISSA PGH	Omar Farah Abdi	Pharmaceutical Technologist
24	KAKAMEGA PGH	Dr. Isaac Sigege Onunda	Pharmacist
25	NYANZA PGH	Gayleen Opande	Pharmaceutical Technologist
26	CPGH	Dr. Fadhia Hamumy	Pharmacist

	Name of Facility	Name of Participant	Cadre
27	RV PGH	Dr. Jonah Maina	Pharmacist
28	PORT REITZ DISTRICT HOSPITAL	Dr. Ateq Mohammed	Pharmacist
29	PROVINCIAL PHARMACIST, NYAYO HOUSE, NAIROBI	Dr. Njeri Mucheru	Pharmacist
30	SIAYA DH	Dr. James Owuor	Pharmacist
31	THIKA DH	Dr. Monica Karara	Pharmacist
32	UNITID	Dr. Helen Kiarie	Pharmacist
33	WALTER REED PROJECT, KERICO	Dr. Noah Tarus	Pharmacist

Annex 4. Time Table for *Comprehensive ART Commodity Management Training Course, Kenya*

COMPREHENSIVE ART COMMODITY MANAGEMENT TRAINING COURSE, KENYA

TIME TABLE

FACILITATED BY NASCOP AND MSH/RPM PLUS

Venue: Nairobi Safari Club

Dates: 8th to 12th August 2005

Time	Session	Facilitator
MONDAY: 8th of August 2005		
Chair: Dr. Dorine Kagai		
8:15- 8:30 am	Welcome and Introductions	Dr. Dorine Kagai, NASCOP
8:30 -8:50 am	Key Note Address	Dr. Isaiah Tanui, NASCOP
8.50 - 9:10 am	Course Overview	Dr. Michael Thuo, MSH
9:10 – 9:30 am	Pre-test	Dr. Josephine Maundu, MSH
9:30 – 10:30 am	Session 1.1: Overview of the HIV/AIDS Situation in the World and in Kenya	Dr Mary Wangai , MSH Dr. Helena Walkowiak, MSH
10:30 -11:00 am (30 min)	Break	
11:00 – 12:00 pm	Session 1.2: HIV/AIDS: Pathophysiology, Laboratory Diagnosis and Monitoring	Dr E. Njagi, University of Nairobi
12:00 – 1:00 pm	Session 1.2: HIV/AIDS: Care and Treatment	Dr S. Ojoo, NASCOP
1:00 – 2:00 pm (60 min)	Lunch	
Chair: Dr. John Jao Majimbo		
2:00 – 3:30 pm	Session 2.1: Drug Management Cycle in the context of the ART Program in Kenya	Dr. Cecilia Muiva, NASCOP/KEMSA Dr. Helena Walkowiak, MSH
3:30 – 3:45 pm (15 min)	Break	

3:45 – 5:00 pm	Session 2.3: Inventory Management: <ul style="list-style-type: none"> Importance of Inventory Management: Sub Session 1 Ordering: Sub Session 2 	Dr. Brian Maiyo, RV PGH Dr. James Ogolla, Nyanza PGH Dr. Lawrence Nzumbu, CPGH
5:00 – 6:00 pm	Coffee Break / Process Review Meeting for Facilitators	

TUESDAY: 9 TH of August 2005		
Chair: Dr. Victor Sumbi		
Time	Session	Facilitator
8:00 – 9:00 am	Session 2.3: Inventory Management: Issuing and Receiving Sub Session 3	Dr. Brian Maiyo, RV PGH Dr. James Ogolla, Nyanza PGH Dr. Lawrence Nzumbu, CPGH
9:00 – 10:00 am	Session 2.2: Store and Facility Management	Dr. Lawrence Nzumbu, CPGH, Dr. Brian Maiyo, RV PGH Dr. James Ogolla, Nyanza PGH
10:00 – 10:30 (30 min)	Break	
10:30 – 11.30 pm	Session 2.2: Store and Facility Management	Dr. Lawrence Nzumbu, CPGH, Dr. Brian Maiyo, RV PGH Dr. James Ogolla, Nyanza PGH
11.30-1.00 pm	Session 3.1: Rational Use of ART Related Health Commodities	Dr. Caroline Olwande, CPGH, Dr. Janet Kimeu, PRDH Dr. John Jao Majimbo, KPA
1:00 – 2:00pm(60 min)	Lunch	
Chair: Dr. Brian Maiyo		
2-00:4:00 pm	Session 3.2: Dispensing of HIV/AIDS-Related Medicine (pp, role play, Training on SOPs-patient record keeping)	Dr. Janet Kimeu, PRDH Dr. Victor Sumbi, Nyeri PGH.
4:00 – 4:15 (15 min)	Break	
4:15 – 5:15 pm	Session 2.4: Monitoring and Evaluation and Pharmaceutical Management Information Systems	Dr. Dorine Kagai, NASCOP Dr. Josephine Maundu, MSH
5:30 – 6:00 pm	Coffee Break / Process Review Meeting for Facilitators	
WEDNESDAY:10 TH August 2005		
Chair: Dr. Lawrence Nzumbu		
8:00 – 9:00 am	Session 2.5: Quantification	Dr. Cecilia Muiva, NASCOP/KEMSA Dr. John Jao Majimbo, KPA,
9:00 – 10:00	Session 2.5: Quantification	Dr. Joseph Mukoko, MSH

10:00 – 10:30 (30 min)	Break	
10:30 – 11:30	Session 2.5: Quantification	Dr. Cecilia Muiva, NASCOP/KEMSA Dr. John Jao Majimbo, KPA, Dr. Joseph Mukoko, MSH
11:30 – 1:00	Session 3.3: Adherence to ART	Dr. Beatrice Jakait, MTRH Rose Alinda, NASCOP Dr. Ndinda Kusu, MSH
1:00 – 2:00 (60 min)	Lunch	
Chair: Dr. Beatrice Jakait		
2:00 – 3:30	Session 3.4: Counseling for ART (PP, case studies, and training on SOPs)	Dr Caroline Olwande, CPGH Dr. Victor Sumbi, Nyeri PGH Dr. Brian Maiyo, RV PGH
3:30 – 3:45 (15 min)	Break	
3:45 – 5:00	Session 3.5: Drug Interactions Involving ART	Dr. Caroline Olwande, CPGH Dr. James Ogolla , Nyanza PGH
5:00 – 6:00	Coffee Break / Process Review Meeting for Facilitators	
THURSDAY: 11 TH August 2005		
Chair: Dr. James Ogolla		
TIME	SESSION	FACILITATOR
8:00 – 9:00	Session 3.6: Pharmacy in Pediatric ART	Dr. Liza Obimbo, University of Nairobi Dr. Beatrice Jakait, MTRH
9:00 – 10:00	Session 3.6: Pharmacy in Pediatric ART	
10:00 – 10:30 (30 min)	Break and Group Photo	
10:30 – 12:00	Session 3.7: HIV, Nutrition, and ART	Rachel Kahindi, PRDH
12:00– 12:30	Orientation to Practicum Site Visit	Jedida Wachira, MSH
12:30 – 1:30 (60 min)	Lunch	
Chair: Dr. Caroline Olwande		
1:30 PM	Departure for Pharmacy Visit	
2:00 – 3:30	KENYATTA NATIONAL HOSPITAL : ART PHARMACY AND ARV BULK STORE	
3:30 PM	Return to Training Center	
4:00 – 5:00	Discussion of the Practicum Site Visit	Jedida Wachira, MSH
5:00 – 6:00	Coffee Break / Process Review Meeting for Facilitators	

FRIDAY: 12 TH August 2005		
Chair: Dr. Janet Kimeu		
8.00-8.30 am	Post Test	Dr. Josephine Maundu, MSH
8:30 – 9:00 am	Introduction of MTP Concepts/Discussion	Dr. Michael Thuo, MSH Helena Walkowiak, MSH
9:00 – 10:00 am		
10:00 – 10:30 (30 min)	Break	
10:30 – 11:30 am	Group Work on MTP	All Facilitators
11:30 am – 1:00 pm	Group Feed Back on MTP	Jedida Wachira, MSH Helena Walkowiak, MSH
1:00 – 2:00 pm (60 min)	Lunch	
Chair: Dr. Cecilia Muiva		
2:00 – 2.20 pm	Overall Course Evaluation	Dr. Josephine Maundu
2:20-2.45 pm	Presentation of Certificates	Dr. Mary Wangai
2:45- 3.00 pm	Closing Remarks	Dr. Michael Thuo
3.00 pm	TEA AND DEPARTURE	